Author Index

ABBOUD M. *see* STEFFEN M.
ABDUL-GAFFAR R. *see* MACINTYRE E.A.
ADLER L.T. & CLAASSEN E. Cellular basis of an auto-anti-allotypic mechanism for the maintenance of chronic allotype suppression in the rabbit, 238
ADLER W.H. *see* CHOPRA R.K.
AGOSTINI C. *see* CASSATELLA M.A.
AHMED A.E.E., BIRD P., MCKAY I.C. & WHALEY K. The plasma protein which inhibits complement-mediated prevention of immune precipitation is an Fc binding protein, 20
AHMED A. *see* KORENAGA M.
AKBAR A.M., TIMMS A. & JANOSSY G. Cellular events during memory T-cell activation *in vitro*: the UCHL1 (180,000 MW) determinant is newly synthesized after mitosis, 213
ALARCON B. *see* LOPEZ GUERRERO J.A.
AL-AZZAWI F.A.L. *see* GALLAGHER G.
ALLAN J.E. *see* DOHERTY P.C.
ANDERTON J.G. *see* YEOMAN H.
ANDO M. *see* MATSUMOTO R.
AOI R., NAKASHIMA I., KITAMURA Y., ASAI H. & NAKANO K. Histamine synthesis by mouse T lymphocytes through induced histidine decarboxylase, 219
ARAKI S. *see* MATSUMOTO R.
ARMITAGE R.J. *see* SHIELDS J.G.
ASAI H. *see* AOI R.
ASKENASE P.W. *see* WALLACE G.R.
ASKONAS B.A. *see* BODMER H.C.
AUSTEN K.F. *see* SCHICK B.

BACA M.E. & MOWAT A. MCI. Immunological studies of NK cell-deficient beige mice. I. Defective ability of beige lymphocytes to mediate local and systemic graft-versus-host reactions, 125
BACA M.E., MOWAT A. MCI. & PARROTT D.M.V. Immunological studies of NK cell-deficient beige mice. II. Analysis of T-lymphocyte functions in beige mice, 131
BAKER D. *see* KIMBER I.
BAL V. *see* COX J.H.
BAL V. *see* O'HEHIR R.E.
BASTIN J.M. *see* BODMER H.C.
BATE C.A.W., TAVERNE J. & PLAYFAIR J.H.L. Soluble malarial antigens are toxic and induce the production of tumour necrosis factor *in vivo*, 600
BEFUS A.D. *see* TOMIOKA M.
BEFUS D. *see* SWIETER M.
BELL R.G. *see* KORENAGA M.
BERNABEU C. *see* LOPEZ GUERRERO J.A.
BERTON G. *see* CASSATELLA M.A.
BEVERLEY P.C.L. *see* JANOSSY G.
BEVERLEY P.C.L. *see* SHIELDS J.G.
BIANCHI A.T.J. *see* VAN DER HEIJDEN P.J.
BIENENSTOCK J. *see* TOMIOKA M.
BIRD P. *see* AHMED A.E.E.
BITOH S., FUJIMOTO S. & YAMAMOTO H. Idiotypic and anti-idiotypic B–B cell interaction is controlled by major histocompatibility complex-restricted regulation, 479
Bocchieri M.H. Immunoregulatory effects of cloned T cells on B-cell responses: comparison of autoimmune and non-autoimmune derived clones, 526
BODMER H.C., BASTIN J.M., ASKONAS B.A. & TOWNSEND A.R.M. Influenza-specific cytotoxic T-cell recognition is inhibited by peptides unrelated in both sequence and MHC restriction, 163
BOFILL M. *see* JANOSSY G.
BOKHOUT B.A. *see* VAN DER HEIJDEN P.J.
BORREBAECK C.A.K. *see* OHLIN M.
BRADBURY M.G. & PARISH C.R. Receptors on lymphocytes for endogenous splenic glycosaminoglycans, 546
BRAMS P. & CLAESSON M.H. T-cell activation. I. Evidence for a functional linkage between class I MHC antigens and the T3–Ti complex, 348
BRANDON M.R. *see* GOGOLIN-EWENS K.J.
BRANDON M.R. *see* LEE C.S.
BRIFFA J. *see* WALLACE G.R.
BRINGS B. *see* BUJANOWSKI-WEBER J.
BRINGS B. *see* KNÖLLER I.
BROWN C.G.D. *see* SPOONER R.L.
BUCHMEIER N.A. & COOPER N.R. Suppression of monocyte functions by human cytomegalovirus, 278
BUJANOWSKI-WEBER J., BRINGS B., KNÖLLER I., PFEIL T. & KÖNIG W. Expression of low-affinity receptor for IgE (Fcε RII, CD23) and IgE-BF (soluble CD23) release by lymphoblastoid B-cell line RRMI-8866 and human peripheral lymphocytes of normal and atopic donors, 505
BUJANOWSKI-WEBER J. *see* KNÖLLER I.
BUJDOSO R., YOUNG P., HARKISS G.D. & MCCONNELL I. Antigen presentation in the sheep: generation of antigen-specific T-cell lines, 559
BURKHARDT K., MANDEL T.E., DIAMANTSTEIN T. & LOUGHNAN M.S. Anti-IL-2 receptor monoclonal antibody AMT-13 increases soluble IL-2 receptor levels *in vivo*, 183
BURNS G.F. *see* JIN B.
BUTCHER G.W. *see* COX J.H.

CAHILL R.N.P. *see* KIMPTON W.G.
CALKINS C. *see* CAULFIELD M.J.
CALLARD R.E. *see* SHIELDS J.G.
CARCHMAN R.A. *see* STRNAD C.F.
CARLSSON R. *see* HEDLUND G.
CARLSSON R. *see* OHLIN M.
CASSATELLA M.A., BERTON G., AGOSTINI C., ZAMBELLO R., TRENTIN L., CIPRIANI A. & SEMENZATO G. Generation of superoxide anion by alveolar macrophages in sarcoidosis: evidence for the activation of the oxygen metabolism in patients with high-intensity alveolitis, 451
CASTRO G.A. *see* HARARI Y.
CAULFIELD M.J., STANKO D. & CALKINS C. Characterization of the spontaneous autoimmune (anti-erythrocyte) response in NZB mice using a pathogenic monoclonal autoantibody and its anti-idiotype, 233
CHADEE K. *see* DENIS M.
CHAIN B.M. *see* FLORY M.
CHAIN B.M. *see* WALLACE G.R.
CHAN W.-L. Functional cross-reactivity between the glycoprotein B of herpes simplex type 1 and Epstein–Barr virus, 14
CHANTRY D. *see* PORTILLO G.
CHEN P.B. *see* MOOKERJEE B.K.
CHOPRA R.K., POWERS D.C., ADLER W.H. & NAGEL J.E. Phorbol myristate acetate and calcium ionophore A23187-stimulated human T cells do not express high-affinity IL-2 receptors, 54
CHRISTENSEN P. *see* JOHANSSON P.J.H.
CIPRIANI A. *see* CASSATELLA M.A.
CLAASSEN E. *see* ADLER L.T.
CLAESSON M.H. *see* BRAMS P.
COOK C.G., LETCHWORTH G.J. & SPLITTER G.A. Bovine naturally cytolytic cell activation against bovine herpes virus type 1-infected cells does not require late viral glycoproteins, 565
COOKE A. *see* HUTCHINGS P.R.

COOPER N.R. *see* BUCHMEIER N.A.

COX J.H., LAMB J.R., BAL V., BUTCHER G.W., HOWARD J.C., OWEN M.J. & IVANYI J. The phenotypic and molecular characterization of Nb2 lymphoma cells activated with IL-2 and human growth hormone, 83

DANIELSSON L. *see* OHLIN M.

DENIS M. & CHADEE K. T-cell clones against *Entamoeba histolytica: in vivo* and *in vitro* characterization, 76

DIAMANTSTEIN T. *see* BURKHARDT K.

DIAMANTSTEIN T. *see* HERRMANN T.

DOHERTY P.C., ALLAN J.E. & ALLAN W. *In vivo* treatment with an appropriate anti-Thy-1.2 monoclonal antibody abrogates hybrid resistance to Thy-1.2$^+$ virus-immune effector T cells, 631

DOHLSTEN M. *see* HEDLUND G.

DOL M. *see* VAN DER HEIJDEN P.J.

DRANNIK G.N. *see* GRANDO S.A.

FARQUHARSON M.A. *see* KHAN N.U.-D.

FELBER E. *see* ZWIRNER J.

FELDMANN M. *see* PORTILLO G.

FERGUSON A. *see* KAY R.A.

FEUCHT H.E. *see* ZWIRNER J.

FEY H. *see* JUNGI T.W.

FINDLAY J. *see* GALLAGHER G.

FLORES-ROMO L., FOSTER D., GUY G.R. & GORDON J. Phorbol ester and calcium ionophore are sufficient to promote cell replication in cultures of quiescent human B lymphocytes, 228

FLORY M., WALLACE G.R., OETTEL K. & CHAIN B.M. The T-cell response to haptenated insulins. II. The antibody response, 45

FOSTER D. *see* FLORES-ROMO L.

FOULIS A.K. *see* KHAN N.U.-D.

FRESNO M. *see* LOPEZ GUERRERO J.A.

FUJIMOTO S. *see* BITOH S.

FUJITA M., MISHIMA M., IWABUCHI K., KATSUME C., GOTOHDA T., OGASAWARA K., MIZUNO Y., GOOD R.A. & ONOE K. A study on type II collagen-induced arthritis in allogeneic bone marrow chimaeras, 422

FUJIWARA M. *see* MATSUMOTO Y.

GALLAGHER G., FINDLAY J. & AL-AZZAWI F.A.L. Human lymphokine-activated killer cells develop syngeneic killing ability, 471

GERGLEY J. *see* ROZSNYAY Z.

GHALI W.A. *see* SWIETER M.

GIEGERICH G.W., HEIN W.R., MIYASAKA M., TIEFENTHALER G. & HUNIG T. Restricted expression of CD2 among subsets of sheep thymocytes and T lymphocytes, 354

GITTER B.D., LABUS J.M., LEES S.L. & SCHEETZ M.E. Characteristics of human synovial fibroblast activation by IL-1β and TNFα, 196

GLASS E.J. *see* SPOONER R.L.

GLEICH G.J. *see* THOMAS L.L.

GLUKHENKY B.T. *see* GRANDO S.A.

GOETZL E.J., KODAMA K.T., TURCK C.W., SCHIOGOLEV S.A. & SREEDHARAN S.P. Unique pattern of cleavage of vasoactive intestinal peptide by human lymphocytes, 554

GOGOLIN-EWENS K.J., LEE C.S., MERCER W.R. & BRANDON M.R. Site-directed differences in the immune response to the fetus, 312

GOOD R.A. *see* FUJITA M.

GORDON J. *see* FLORES-ROMO L.

GOTO T. *see* TOMIOKA M.

GOTOHDA T. *see* FUJITA M.

GRANDO S.A., GLUKHENKY B.T., DRANNIK G.N., KOSTROMIN A.P. & ROMANENKO A.B. The effect of experimental haemocarboïltration upon activity of mononuclear cells from normal and autoimmune patients, 138

GRANT A.J., MERCHANT R.E. & HALL R.E. Interleukin-2 modulates the expression of lymphocyte function-associated antigen-one (LFA-1) and p150,95 during the generation of lymphokine-activated killer (LAK) cells, 117

GURIN J.L. *see* NORTH S.M.

GUY G.R. *see* FLORES-ROMO L.

GYLLENHAMMAR H. & PALMBLAD J. Linoleic acid-deficient rat neutrophils show decreased bactericidal capacity, superoxide formation and membrane depolarization, 616

HABU, S. *see* TAKEUCHI Y.

HALL R.E. *see* GRANT A.J.

HAMILTON J.A. *see* HART P.H.

HARARI Y. & CASTRO G.A. Simulation of parasite-induced gut hypersensitivity: implications for vaccination, 302

HARKISS G.D. *see* BUJDOSO R.

HART P.H., WHITTY G.A., PICCOLI D.S. & HAMILTON J.A. Control by IFN-γ and PGE_2 of TNFα and IL-1 production by human monocytes, 376

HASKARD D.O., STROBEL S., THORNHILL M., PITZALIS C. & LEVINSKY R.J. Mechanisms of lymphocyte culture adhesion to endothelial cells: studies using a LFA-1-deficient cell line, 111

HEATLEY R.V. *see* SMART C.J.

HEDLUND G., DOHLSTEN M., SJOGREN H.O. & CARLSSON R. Maximal interferon-gamma production and early synthesis of interleukin-2 by CD4$^+$CDw29$^-$CD45R$^-$p80$^-$ human T lymphocytes, 49

HEIN W.R. *see* GIEGERICH G.W.

HERRMANN T., JOSIMOVIC-ALASEVIC O., MOUZAKI A. & DIAMANTSTEIN T. Demonstration of two distinct forms of released low affinity-type rat IL-2 receptors, 384

HITOSHI Y. *see* MATSUMOTO R.

HOSKING C.S. *see* SENNHAUSER F.H.

HOWARD J.C. *see* COX J.H.

HOWATSON A. *see* KHAN N.U.-D.

HUNIG T. *see* GIEGERICH G.W.

HUTCHINGS P.R., PARISH N.M. & COOKE A. Abnormalities in the SJL mouse provide evidence for different mechanisms for the induction and transfer of tolerance to mouse thyroglobulin, 106

INNES E.A. *see* SPOONER R.L.

IVANYI J. *see* COX J.H.

IWABUCHI K. *see* FUJITA M.

JACKSON R. *see* KHAN N.U.-D.

JAMIESON B.N. *see* SHIELDS J.G.

JANOSSY G., BOFILL M., ROWE D., MUIR J. & BEVERLEY P.C.L. The tissue distribution of T lymphocytes expressing different CD45 polypeptides, 517

JANOSSY G. *see* AKBAR A.M.

JEFFERIS R. *see* ROZSNYAY Z.

JEGGO M.H. *see* TAKAMATSU H.

JIN B., SCOTT J.L., VADAS M.A. & BURNS G.F. TGFβ down-regulates TLiSA1 expression and inhibits the differentiation of precursor lymphocytes into CTL and LAK cells, 570

JOHANSSON P.J.H., NARDELLA F.A., SJOQUIST J., SCHRODER A.K. & CHRISTENSEN P. Herpes simplex type 1-induced Fc receptor binds to the Cγ2–Cγ3 interface region of IgG in the area that binds staphylococcal protein A, 8

JOSIMOVIC-ALASEVIC O. *see* HERRMANN T.

JUNGI T.W., PETERHANS E., PFISTER H. & FEY H. The interaction of ruminant IgG with receptor type II for IgG on human phagocytes, 143

KATSUME C. *see* FUJITA M.

KAWAGUCHI S. Reactivity of mouse antibodies against bromelain-treated mouse erythrocytes with thrombin-treated mouse platelets, 335

KAWAI K. *see* MATSUMOTO Y.

KAWANISHI H. & KIELY J. Impaired non-specific suppressor-inducer T-cell activity in aged murine Peyer's patches, which can be corrected largely by IL-2 *in vitro*, 61

KAY A.B. *see* O'HEHIR R.E.

KAY R.A. & FERGUSON A. The immunological consequences of feeding cholera toxin. I. Feeding cholera toxin suppresses the induction of systemic delayed-type hypersensitivity but not humoral immunity, 410

KAY R.A. & FERGUSON A. The immunological consequences of feeding cholera toxin. II. Mechanisms responsible for the induction of oral tolerance for DTH, 416

KELLY R.H. *see* VERTOSICK F.T.

KHAN N.U.-D., PULFORD K.A.F., FARQUHARSON M.A., HOWATSON A., STEWART C., JACKSON R., MCNICOL A.M. & FOULIS A.K. The distribution of immunoreactive interferon-alpha in normal human tissues, 201

KIELY J. *see* KAWANISHI H.
KIERSZENBAUM F. *see* MOLINA H.A.
KIERSZENBAUM F. *see* WIRTH J.J.
KILSHAW P.J. *see* VINEY J.L.
KIMBER I., SHEPHERD C.J., MITCHELL J.A., TURK J.L. & BAKER D. Regulation of lymphocyte proliferation in contact sensitivity: homeostatic mechanisms and a possible explanation of antigenic competition, 577
KIMPTON W.G., WASHINGTON E.A. & CAHILL R.N.P. Recirculation of lymphocyte subsets ($CD5^+$, $CD4^+$, $CD8^+$, SUB-$T19^+$ and B cells) through gut and peripheral lymph nodes, 69
KIRK D. *see* REYNOLDS J.D.
KISHIHARA K. *see* YOSHIKAI Y.
KITAMURA H. & TSUBOI M. Inhibition of immune haemolysis by a serum factor found in C3-deficient subjects, 264
KITAMURA Y. *see* AOI R.
KNIGHT S.C. *see* MACATONIA S.E.
KNÖLLER I., BUJANOWSKI-WEBER J., BRINGS B. & KÖNIG W. Influence of IL-2 and IL-4 on the IgE synthesis and the IgE-binding factor (sCD23) production by human lymphocytes *in vitro*, 368
KNÖLLER I. *see* BUJANOWSKI-WEBER J.
KODAMA K.T. *see* GOETZL E.J.
KÖNIG W. *see* BUJANOWSKI-WEBER J.
KÖNIG W. *see* KNÖLLER I.
KORENAGA M., WANG C.H., BELL R.G., ZHU D. & AHMED A. Intestinal immunity to *Trichinella spiralis* is a property of $OX8^-$ $OX22^-$ T-helper cells that are generated in the intestine, 588
KOSSAKOWSKA A.E. & URBANSKI S.J. Novel region within the $V\kappa$ gene promoter is responsible for tissue- and stage-specific expression of immunoglobulin genes in human lymphoid neoplasms, 328
KOSTROMIN A.P. *see* GRANDO S.A.

LAMB J.R. *see* COX J.H.
LAMB J.R. *see* O'HEHIR R.E.
LAMONT A.G., MOWAT A.MCI. & PARROTT D.M.V. Priming of systemic and local delayed-type hypersensitivity responses by feeding low doses of ovalbumin to mice, 595
LARSSON P. *see* SKOGLUND C.
LEE C.S., MEEUSEN E. & BRANDON M.R. Supopulations of lymphocytes in the mammary gland of sheep, 388
LEE C.S., *see* GOGOLIN-EWENS K.J.
LEE T.D.G. *see* TOMIOKA M.
LEES S.L. *see* GITTER B.D.
LEHNER T. *see* MITCHELL C.G.
LETCHWORTH G.J. *see* COOK C.G.
LEVINSKY R.J. *see* HASKARD D.O.
LEVY J.A. *see* WALKER C.M.
LIN W.-Q. *see* STRNAD C.F.
LINCH D.C. *see* MACINTYRE E.A.
LOPEZ GUERRERO J.A., REDONDO J.M., ALARCON B., SANCHEZ-MADRID F., RODRIGUEZ MOYA M., ORTIZ DE LANDAZURI M., BERNABEU C. & FRESNO M. Different functional domains on the transferrin receptor molecule defined by monoclonal antibodies, 252
LOUGHNAN M.S. *see* BURKHARDT K.

MACATONIA S.E. & KNIGHT S.C. Dendritic cells and T cells transfer sensitization for delayed-type hypersensitivity after skin painting with contact sensitizer, 96
MCCAFFERTY I. *see* WALLACE G.R.
MCCONNELL I. *see* BUJDOSO R.
MACDONALD R.A. *see* SENNHAUSER F.H.
MACDONALD T.T. *see* VINEY J.L.
MCINNES I.B. *see* MOWAT A.MCI.
MACINTYRE E.A., WALLACE D.W., O'FLYNN K., ABDUL-GAFFAR R., TETTEROO P.A.T., MORGAN G. & LINCH D.C. Binding of monoclonal antibody to CD16 causes calcium mobilization in large granular lymphocytes but inhibits NK killing, 459
MCKAY I.C. *see* AHMED A.E.E.
MCNICOL A.M. *see* KHAN N.U.-D.
MALE D. *see* PRYCE G.
MANDEL T.E. *see* BURKHARDT K.
MARSHALL J.S. & BELL E.B. Induction of an auto-anti-IgE response in rats. III. Inhibition of a specific IgE response, 428
MASLANKA L. *see* ROZSNYAY Z.
MATSUMOTO M. *see* MATSUMOTO R.
MATSUMOTO R., MATSUMOTO M., MITA S., HITOSHI Y., ANDO M., ARAKI S., YAMAGUCHI N., TOMINAGA A. & TAKATSU K. Interleukin-5 induces maturation but not class switching of surface Ig-positive B cells into IgA-secreting cells, 32
MATSUMOTO Y., KAWAI K. & FUJIWARA M. *In situ* Ia expression on brain cells in the rat: autoimmune encephalomyelitis-resistant strain (BN) and susceptible strain (Lewis) compared, 621
MATSUZAKI G. *see* YOSHIKAI Y.
MEEUSEN E. *see* LEE C.S.
MERCER W.R. *see* GOGOLIN-EWENS K.J.
MERCHANT R.E. *see* GRANT A.J.
MISHIMA M. *see* FUJITA M.
MITA S. *see* MATSUMOTO R.
MITCHELL C.G. & LEHNER T. Proteolysis of the 185,000 MW streptococcal cell wall antigen generating 4000 and 6000 MW peptides with distinct antigenic determinants, 246
MITCHELL J.A. *see* KIMBER I.
MIYASAKA Y. *see* GIEGERICH G.W.
MIZUNO Y. *see* FUJITA M.
MOLINA H.A. & KIERSZENBAUM F. Interaction of human eosinophils or neutrophils with *Trypanosoma cruzi in vitro* causes bystander cardiac cell damage, 289
MOORE M.A.S. *see* STEFFEN M.
MOQBEL R. *see* O'HEHIR R.E.
MORGAN G. *see* MACINTYRE E.A.
MOUZAKI A. *see* HERRMANN T.
MOWAT A.MCI., MCINNES I.B. & PARROTT D.M.V. Functional properties of intra-epithelial lymphocytes from mouse small intestine. IV. Investigation of the proliferative capacity of IEL using phorbol ester and calcium ionophore, 398
MOWAT A.MCI. *see* BACA M.E.
MOWAT A.MCI. *see* LAMONT A.G.
MUIR J. *see* JANOSSY G.

NAGEL J.E. *see* CHOPRA R.K.
NAKANO K. *see* AOI R.
NAKANO K. *see* NYGREN H.
NAKANO M. *see* NITTA T.
NAKASHIMA I. *see* AOI R.
NARDELLA F.A. *see* JOHANSSON P.J.H.
NEMOTO K. *see* NITTA T.
NEWMAN I. & WILKINSON P.C. Chemotactic activity of lymphotoxin and tumour necrosis factor alpha for human neutrophils, 318
NITTA T., NEMOTO K., YABUTA H., OKUMURA S. & NAKANO M. Antigen-dependent and -independent proliferative T-cell populations in the peritoneal exudate cells of immunized mice, 532
NOMOTO K. *see* YOSHIKAI Y.
NORTH S.M. & GURIN J.L. Regulation of serum antibodies induced in syngeneic rats after administration of monoclonal antibody MT10:21, 26
NUMOTO K. *see* ROZSNYAY Z.
NYGREN H. & STENBERG M. Immunochemistry at interfaces, 321

OETTEL K. *see* FLORY M.
O'FLYNN K. *see* MACINTYRE E.A.
OGASAWARA K. *see* FUJITA M.
O'HEHIR R.E., BAL V., QUINT D., MOQBEL R., KAY A.B., ZANDERS E.D. & LAMB J.R. An *in vitro* model of allergen-dependent IgE synthesis by human B lymphocytes: comparison of the response of an atopic and a non-atopic individual to *Dermatophagoides* spp. (house dust mite), 499
OHGA S. *see* YOSHIKAI Y.
OHLIN M., DANIELSSON L., CARLSSON R. & BORREBAECK C.A.K. The effect of leucyl-leucine methyl ester on proliferation and Ig secretion of EBV-transformed human B lymphocytes, 485
OKUMURA K. *see* TAKEUCHI Y.
OKUMURA S. *see* NITTA T.
ONOE K. *see* FUJITA M.
OPDEBEECK J.P. *see* WONG J.Y.M.
ORTIZ DE LANDAZURI M. *see* LOPEZ GUERRERO J.A.
OSMOND D.G. *see* PARK Y.-H.
OWEN M.J. *see* COX J.H.

PALMBLAD J. *see* GYLLENHAMMAR H.
PARISH C.R. *see* BRADBURY M.G.
PARISH N.M. *see* HUTCHINGS P.R.
PARK Y.-H. & OSMOND D.G. Post-irradiation regeneration of early B-lymphocyte precursor cells in mouse bone marrow, 343
PARROTT D.M.V. *see* BACA M.E.
PARROTT D.M.V. *see* LAMONT A.G.
PARROTT D.M.V. *see* MOWAT A.MCI.
PAULY J.L. *see* MOOKERJEE B.K.
PETERHANS E. *see* JUNGI T.W.
PFEIL T. *see* BUJANOWSKI-WEBER J.
PFISTER H. *see* JUNGI T.W.
PICCOLI D.S. *see* HART P.H.
PITZALIS C. *see* HASKARD D.O.
PLAYFAIR J.H.L. *see* BATE C.A.W
PORTILLO G., TURNER M., CHANTRY D. & FELDMANN M. Effect of cytokines on HLA-DR and IL-1 production by a monocytic tumour, THP-1, 170
POTTER G.K. *see* STEFFEN M.
POWERS D.C. *see* CHOPRA R.K.
PRYCE G., MALE D. & SEDGWICK J. Antigen presentation in brain: brain endothelial cells are poor stimulators of T-cell proliferation, 207

QUINT D. *see* O'HEHIR R.E.

REDONDO J.M. *see* LOPEZ GUERRERO J.A.
REYNOLDS J.D. & KIRK D. Two types of sheep Peyer's patches: location along gut does not influence involution, 308
RIETHMULLER G. *see* ZWIRNER J.
RIMMER C. *see* SWIETER M.
ROBERTON D.M. *see* SENNHAUSER F.H.
RODRIGUEZ MOYA M. *see* LOPEZ GUERRERO J.A.
ROMANENKO A.B. *see* GRANDO S.A.
ROWE D. *see* JANOSSY G.
ROZSNYAY Z., SARMAY G., WALKER M., MASLANKA L., VALASEK Z., JEFFERIS R., GERGLEY J. & NUMOTO K. Distinctive role of IgG1 and IgG3 isotypes in FcγR-mediated functions, 491

SANCHEZ-MADRID F. *see* LOPEZ GUERRERO J.A.
SARMAY G. *see* ROZSNYAY Z.
SCHEETZ M.E. *see* GITTER B.D.
SCHEYNIUS A. *see* SKOGLUND C.
SCHICK B. & AUSTEN K.F. Modulation of chymase-mediated rat serosal mast cell degranulation by trypsin or diisopropyl fluorophosphate, 434
SCHIOGOLEV S.A. *see* GOETZL E.J.
SCHMIDT P. *see* ZWIRNER J.
SCHNEIDER C.H. *see* VON GRUNIGEN R.
SCHOLTEN J.W. *see* VAN DER HEIJDEN P.J.
SCHRODER A.K. *see* JOHANSSON P.J.H.
SCOTT J.L. *see* JIN B.
SEDGWICK J. *see* PRYCE G.
SEMENZATO G. *see* CASSATELLA M.A.
SENNHAUSER F.H., MACDONALD R.A., ROBERTON D.M. & HOSKING C.S. Comparison of concentration and avidity of specific antibodies to *E.coli* in breast milk and serum, 394
SHEPHERD C.J. *see* KIMBER I.
SHIELDS J.G., ARMITAGE R.J., JAMIESON B.N., BEVERLEY P.C.L. & CALLARD R.E. Increased expression of surface IgM but not IgD or IgG on human B cells in response to IL-4, 224
SJOGREN H.O. *see* HEDLUND G.
SJOQUIST J. *see* JOHANSSON P.J.H.
SKOGLUND C., SCHEYNIUS A., SODER O. & LARSSON P. Effects on rat T-helper cell proliferation by syngeneic epidermal cells exposed to IFN-γ *in vivo*, 190
SMART C.J., HEATLEY R.V. & TREJDOSIEWICZ L.K. Expression of CD6 and the UCHL1-defined CD45 (p180) antigen by human colonic T lymphocytes, 90
SODER O. *see* SKOGLUND C.
SPLITTER G.A. *see* COOK C.G.
SPOONER R.L., INNES E.A., GLASS E.J. & BROWN C.G.D. *Theileria annulata* and *T. parva* infect and transform different bovine mononuclear cells, 284
SREEDHARAN S.P. *see* GOETZL E.J.
STANKO D. *see* CAULFIELD M.J.
STANLEY M.A. *see* YEOMAN H.
STEFFEN M., ABBOUD M., POTTER G.K., YUNG Y.P. & MOORE M.A.S. Presence of tumour necrosis factor or a related factor in human basophil/mast cells, 445
STENBERG M. *see* NYGREN H.
STEWART C. *see* KHAN N.U.-D.
STOK W. *see* VAN DER HEIJDEN P.J.
STRNAD C.F., LIN W.-Q. & CARCHMAN R.A. Interactive effects of pertussis toxin and phorbol ester tumour promotor, phorbol dibutyrate, on T-lymphocyte mitogenesis and the expression of phenotypic determinants, 539
STROBEL S. *see* HASKARD D.O.
SU D. & VAN ROOIJEN N. The role of macrophages in the immunoadjuvant action of liposomes: effects of elimination of splenic macrophages on the immune response against intravenously injected liposome-associated albumin antigen, 466
SUZUKI G. *see* TAKEUCHI Y.
SWIETER M., GHALI W.A., RIMMER C. & BEFUS D. Interferon-α/β inhibits IgE-dependent histamine release from rat mast cells, 606

TAKAMATSU H. & JEGGO M.H. Cultivation of Bluetongue virus-specific ovine T cells and their cross-reactivity with different serotype viruses, 258
TAKATSU K. *see* MATSUMOTO R.
TAKEDA Y. *see* YOSHIKAI Y.
TAKEUCHI Y., HABU S., OKUMURA K. & SUZUKI G. Cyclosporin A and anti-Ia antibody cause a maturation defect of $CD4^+8^-$ cells in organ-cultured fetal thymus, 362
TAVERNE J. *see* BATE C.A.W.
TETTEROO P.A.T. *see* MACINTYRE E.A.
THOMAS L.L., ZHEUTLIN L.M. & GLEICH G.J. Pharmacological control of human basophil histamine release stimulated by eosinophil granule major basic protein, 611
THORNHILL M. *see* HASKARD D.O.
TIEFENTHALER G. *see* GIEGERICH G.W.
TIMMS A. *see* AKBAR A.M.
TOMINAGA A. *see* MATSUMOTO R.
TOMIOKA M., GOTO T., LEE T.D.G., BIENENSTOCK J. & BEFUS A.D. Isolation and characterization of lung mast cells form rats with bleomycin-induced pulmonary fibrosis, 439
TOWNSEND A.R.M. *see* BODMER H.C.
TREJDOSIEWICZ L.K. *see* SMART C.J.
TRENTIN L. *see* CASSATELLA M.A.
TSUBOI M. *see* KITAMURA H.
TURCK C.W. *see* GOETZL E.J.
TURK J.L. *see* KIMBER I.
TURNER M. *see* PORTILLO G.

URBANSKI S.J. *see* KOSSAKOWSKA A.E.

VADAS M.A. *see* JIN B.
VALASEK Z. *see* ROZSNYAY Z.
VAN DER HEIJDEN P.J., BIANCHI A.T.J., BOKHOUT B.A., DOL M., SCHOLTEN J.W. & STOK W. Quantification of antigen-specific antibody-secreting cells in the small intestine and other lymphoid organs of mice after oral booster immunization, 404
VAN ROOIJEN N. *see* SU D.
VERTOSICK F.T. & KELLY R.H. Immune network theory: a role for parallel distributed processing?, 1
VINEY J.L., MACDONALD T.T. & KILSHAW P.J. T-cell receptor expression in intestinal intra-epithelial lymphocyte subpopulations of normal and athymic mice, 583
VON GRUNIGEN R. & SCHNEIDER C.H. Antigenic structure of the hexacosapeptide melittin: evidence for three determinants, one with a helical conformation, 339
WALKER C.M. & LEVY J.A. A diffusible lymphokine produced by $CD8^+$ T lymphocytes suppresses HIV replication, 628
WALKER M. *see* ROZSNYAY Z.
WALLACE D.W. *see* MACINTYRE E.A.
WALLACE G.R., BRIFFA J., MCCAFFERTY I., ASKENASE P.W. & CHAIN B.M. The T-cell response to haptenated insulins. I. The proliferative response, 39
WALLACE G.R. *see* FLORY M.

WANG C.H. *see* KORENAGA M.
WASHINGTON E.A. *see* KIMPTON W.G.
WHALEY K. *see* AHMED A.E.E.
WHITTY G.A. *see* HART P.H.
WIRTH J.J., KIERSZENBAUM F. & ZLOTNIK A. Effects of IL-4 on macrophage functions: increased uptake and killing of a protozoan parasite (*Trypanosoma cruzi*), 296
WONG J.Y.M. & OPDEBEECK J.P. Protective efficacy of antigens solubilized from gut membranes of the cattle tick, *Boophilus microplus*, 149

YABUTA H. *see* NITTA T.
YAMAGUCHI N. *see* MATSUMOTO R.
YAMAMOTO H. *see* BITOH S.
YEOMAN H., ANDERTON J.G. & STANLEY M.A. MHC class II antigen expression is not induced on murine epidermal keratinocytes by interferon-gamma alone or in combination with tumour necrosis factor alpha, 100
YOSHIKAI Y., TAKEDA Y., OHGA S., KISHIHARA K., MATSUZAKI G. & NOMOTO K. Rearrangements of T-cell antigen receptor γ and δ chain genes are detected in the long-term cultured bone marrow cells of athymic nude but not in those of euthymic mice, 512
YOUNG P. *see* BUJDOSO R.
YUNG Y.P. *see* STEFFEN M.

ZAMBELLO R. *see* CASSATELLA M.A.
ZANDERS E.D. *see* O'HEHIR R.E.
ZHEUTLIN L.M. *see* THOMAS L.L.
ZHU D. *see* KORENAGA M.
ZLOTNIK A. *see* WIRTH J.J.
ZWIRNER J., FELBER E., SCHMIDT P., RIETHMULLER G. & FEUCHT H.E. Complement activation in human lymphoid germinal centres, 270

Subject Index

Allotype suppression:
cellular basis of the auto-anti-allotype mechanism, 238
Antibodies to *E.coli* in milk and serum:
concentration and avidity, 394
Anti-CD16:
causes calcium mobilization in LGL but inhibits NK killing, 459
Antigen presentation:
in sheep, 559
Antigen presentation in brain: brain endothelial cells are poor stimulators of T-cell proliferation, 207
Antigenic structure:
of melittin, 339
Auto-anti-IgE:
inhibition of specific IgE response, 428
Autoimmune, anti-erythrocyte response:
in NZB mice, 233

B-lymphocyte precursors:
regeneration of, 343
B lymphocytes, EBV-transformed:
effect of leucyl-leucine methyl ester, 485
Bluetongue virus-specific ovine T cells, 258
Brain cells:
in situ expression of Ia, 621
Bromelain-treated mouse erythrocytes, antibodies to:
reactivity with bromelain-treated platelets, 335

C3 deficiency:
inhibition of immune haemolysis by serum faction, 264
Cattle tick:
protective antigens, 149
CD2:
restricted expression among subsets of sheep thymocytes and T cells, 354
CD45 polypeptides:
tissue distribution of T cells expressing, 517
CD6 and UCHL1 expression by colonic T lymphocytes, 90
$CD8^+$ T cells:
diffusible lymphokine, suppresses HIV replication, 628
Chemotatic activity:
of lymphotoxin and TNF for human neutrophils, 318
Class I antigens and CD3 association, 348
Collagen type II:
arthritis induced in allogeneic bone marrow chimeras, 422
Complement activation:
in lymphoid germinal centres, 270
Contact sensitivity:
regulation of contact sensitivity in, 577
Cyclosporin A and anti-A:
effects on $CD4^+8^-$ cells in fetal thymus, 362
Cytokines:
effect on HLA-DR and IL-1 production by monocytic tumour THP-1, 170
Cytomegalovirus:
suppression of monocyte functions, 278
Cytotoxic T cells, influenza specific:
inhibition by peptides unrelated in sequence and MHC restriction, 163

Delayed-type hypersensitivity
systemic and local, priming by oval antigen, 595
transfer by dendritic cells and T cells, 96

Dendritic cells and T cells:
transfer DTH, 96

Entamoeba histolytica:
T-cell clones against, 76

Fc receptor, induced:
herpes simplex type 1, 8
Fcγ receptor-mediated functions:
role for IgG1 and IgG3 isotypes, 491
Fetus:
immune response to, 312

Germinal centres:
and complement activation, 270
Glycosaminoglycans:
lymphocyte receptors for, 546
Gut hypersensitivity:
implications for vaccination, 302

Haemofiltration:
effect on mononuclear cells, form normal and autoimmune subjects, 138
Herpes simplex type 1:
induced Fc receptor, 8
Herpes simplex virus 1 and Epstein–Barr virus glycoprotein B:
cross-reaction, 14
Herpes virus, bovine:
glycoproteins, recognition, 565
Histamine synthesis:
by mouse T lymphocytes, 219
HIV replication:
suppression by diffusible lymphokine from $CD8^+$ cells, 628

Ia:
in situ expression of brain cells, 621
IFN-α/β:
inhibition of IgE-dependent histamine release from mast cells, 606
IFN-γ:
distribution in normal human tissues, 201
modulation of T-cell activity, 190
IFN-γ and IL-2 production and synthesis by human T lymphocytes, 49
IgA secretion:
effect of IL-5, 32
IgE receptors:
expression, 505
IgE synthesis and IgE-binding factor production:
influence on IL-2 and IL-4, 368
IgE synthesis by human B lymphoctes *in vitro*, 499
IL-2:
modulation of LFA-1 on LAK, 117
IL-2, IL-4:
influence on IgE synthesis and IgE-binding factor production, 368
IL-2-induced polyclonal proliferation of human PBL, 176
IL-2 receptor levels:
increased by anti-IL-2 antibody, 183
IL-2 receptors:
low affinity, rat, 384
IL-4:
enhances macrophage phagocytosis and microbicidal activity, 296
induction of increased expression of surface IgM but not IgD or IgG in human B cells, 224

IL-5:
and IgA secretion, 32
Immune network theory, 1
Immunochemistry:
at interfaces, 321
Immunoregulatory T-cell clones, 526
Intestinal immunity to *Trichinella spiralis*:
a property of $OX8^-OX22^-$ T-helper cells, 588
Intra-epithelial lymphocytes:
proliferation of, 398

Linoleic acid:
effect on neutrophil function, 616
Liposomes:
role of macrophages in adjuvant action, 466
Lymphocyte adhesion to endothelial cells:
using LFA-1-deficient cell line, 111
Lymphocyte proliferation:
in contact sensitivity, regulation, 577
Lymphocyte receptors, for glycosaminoglycans, 546
Lymphocyte subset migration:
through gut and PLN, 69
Lymphocytes:
cleavage of vasoactive peptides, 554
Lymphokine-activated killer cells:
IL-2-modulated expression of LFA-1, 117
syngeneic killing, 471

Macrophages:
role in adjuvant action of liposomes, 466
Major basic protein:
stimulation in histamine release, 611
Malaria, antigens:
and TNF induction, 600
Mammary gland lymphocytes:
sheep, 388
Mast cell degranulation:
enzyme mediated, 434
Mast cells:
inhibition of histamine release by IFN-α/β, 505
isolation and characterization, 439
MHC class II antigen expression:
on epidermal keratinocytes, 100
MHC regulation of Id–anti-Id B–B cell interaction, 479
Monocyte function, suppression by human CMV, 278

Nb2 lymphoma cells:
phenotypic and molecular characterization, 83
NK cell-deficient beige mice:
defects in local and systemic GVH reactions, 125
T-lymphocyte function, 131

Oral immunization, booster:
antibody-secreting cells in small intestine and other lymphoid organs, 404
Oral tolerance:
and cholera toxin, 410
mechanisms, 416

Pertussin toxin and phorbol ester:
interactive effects, 539
Peyer's patches, aged:
suppressor-inducer cells, 61
Peyer's patches, in sheep:
location and involution, 308
Phorbol ester and calcium ionophore:
effects on quiescent human B lymphocytes, 228
Phorbol myristate acetate, and calcium ionophore:
effect on high-affinity IL-2 receptors, 54
Prevention of immune precipitation:
inhibition by Fc binding plasma protein, 20

Regulatory antibodies *in vivo*, 26
Ruminant IgG:
recognition by human phagocyte type II receptors, 143

Sarcoidosis:
generation of superoxide by alveolar macrophages, 451
SJL mice:
tolerance to mouse thyroglobulin, 106
Streptococcal cell wall antigen:
antigenic determinants of, 246
Suppressor-inducer T cells:
in Peyer's patches, 61
Synovial fibroblast activation:
by IL-1 and TNF, 196

T-cell activation *in vitro*:
cellular events, 213
T-cell clones, murine:
against *E. histolytica*, 76
T-cell differentiation:
inhibition by TGFβ, 570
T-cell lines, sheep:
antigen specific, 559
T-cell receptor:
expression in intestinal intra-epithelial lymphocytes, 583
T-cell receptor, human:
γ and δ chain gene rearrangements, 512
T-cell responses to haptenated insulin, 39
T-cells, proliferative:
antigen dependent and independent, 532
T. cruzi:
interaction with inflammatory cells causes bystander cardiac cell damage, 289
Theileria annulata and *parva*:
infect and transform different bovine mononuclear cells, 202
Thy-1^+ cells:
in hybrid resistance, 631
TNF:
induction by malarial antigen, 600
in human basophils and mast cells, 445
TNFα and IL-2 production by human monocytes:
control by IFN-γ and PGE_2, 376
Tolerance to mouse thyroglobulin:
in SJL mice, 106
Transferrin receptor:
different functional domains, 252

Vasoactive intestinal peptide:
cleavage by human lymphocytes, 554
Vκ gene promoter:
and Ig gene expression in human lymphoid neoplasm, 328